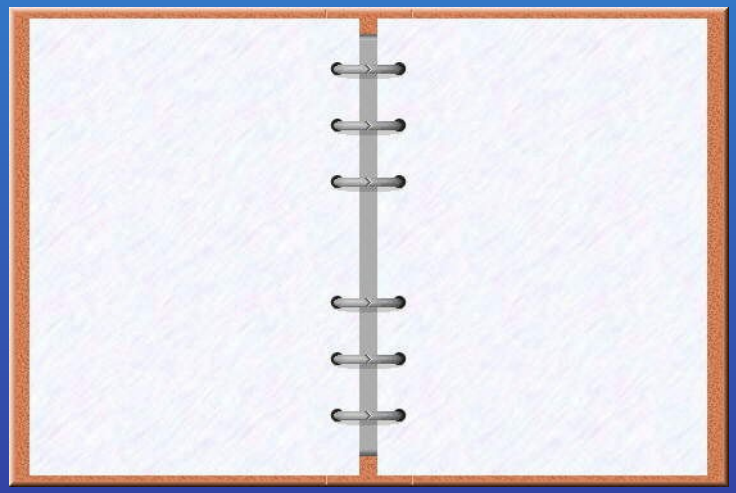
Building 90

Safety Meeting

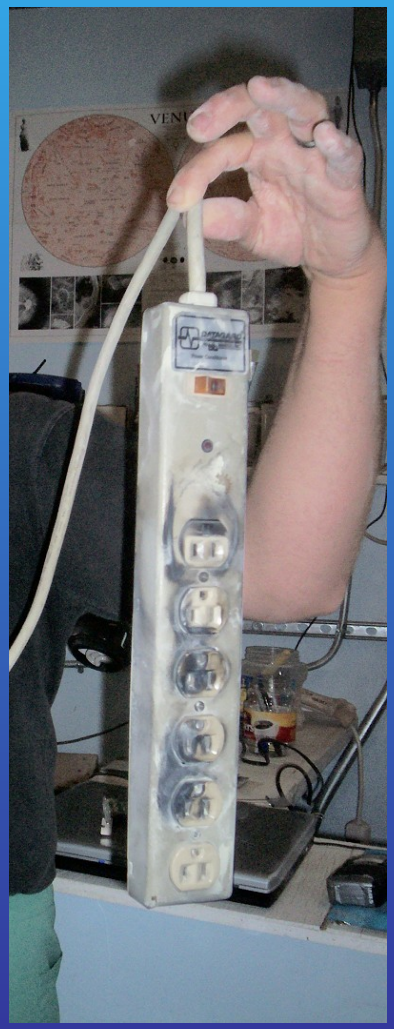
8 MAY 2007

Agenda

- **Minutes of 04/10/07 sent via email, 04/13/07**
- **Review of open actions - none**
- **Topics of the Month**
  - **Electrical Safety**
  - **HVAC**
  - **Miscellaneous**
- **Questions**



Topic of the Day



National Electrical Safety Month

Extension Cords

- **Select extension cords to meet needs.**

- **First, determine your needs.**
  - **Check the total wattage of electrical devices you will plug into the cord.**
  - **Divide that total by 120 to calculate the total nu amps you will need.**

Extension Cords

- **Check the rating, or gauge, on the cord.**
  - **The gauge is shown on the cord as a number, followed by the letters "AWG."**
  - **If the total amps is <u>equal to or greater</u> than the maximum rating of the cord, yo<u>se a higher rated</u> exten.**

Example

- **Typical house wiring is 12 AWG. Lamp cords are usually 16 AWG.**
  - **Thicker wire will have lower numbers.**
  - **Thinner wire is used for lamps and appliances that don't draw much current.**
  - **Thicker wir for power tools and applian heavier electrical d**

Example

- **If you use a thin cord with an appliance that draws a lot of current, the cord could overheat and cause an electrical fire.**

Extension Cords

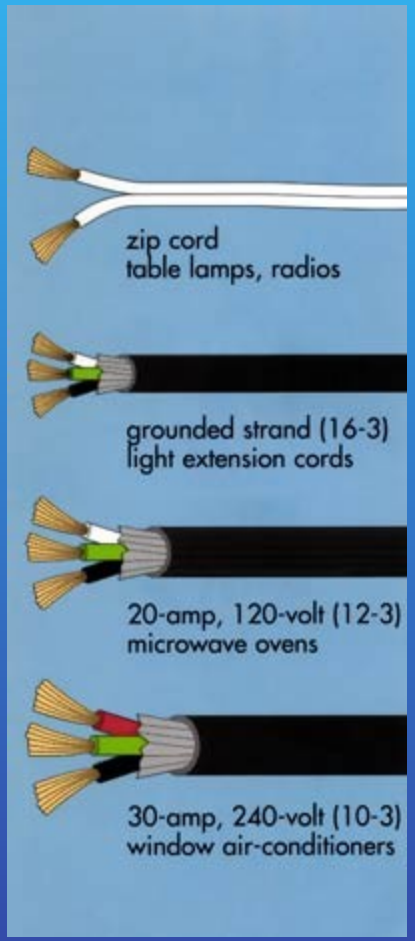
- **Look for an extension cord with the same number of conductors as the one being replaced.**
  - **Smaller electronic devices typically use cords with two conductors.**
  - **Larger appliances, power tools and electronic devices requiring more power use cords with three conductors, one of which is the ground wire.**

Extension Cords

- **Cords have different types of insulation.**
  - **Electric space heaters are required to use cords with thermosetting insulation, which prevents the cord from melting.**
  - **Look for the [illegible] on the cord, or simply ask fo[illegible] heater cord.**

Extension Cords

- **Pay attention cord construction.**
  - **Lamp cords are usually flat, with the individual conductors parallel to each other.**
  - **This type of cord is limited to indoor use and light duty.**
  - **Appliance cords are usually round with larger diameters. They have two layers of insulation over the copper conductors. One layer insulates the individual conductors and a second layer of insulation, called a jacket, is also applied.**



Extension Cords

The Boring But Essential Basics

- **Use UL approved**
- **Always INSPECT for damage**
  - **Damaged insulation, splices, or loose plugs**
- **Never run through doorways or under rugs**
  - **Insulation can become damaged**
  - **Potential fire or shock hazard**
- **Keep slack in flexible cords to prevent tension on electrical terminals**
- **Match plugs with outlets**
  - **Never force a 3-prong plug into 2-prong socket**
- **Store cords indoors when not in use**
  - **Outdoor conditions can deteriorate cord over time**

Extension Cord Safety

Important Usage Tips

- **Never use indoor cords outdoors!**
- **Know cord rating and total load placed on it**
- **Remember - Cord Length**
  - **A cord, based on its gauge, can power a certain wattage at specific distances**

<u>As the cord gets longer, the current carrying</u>

<u>capacity of the cord gets lower</u>

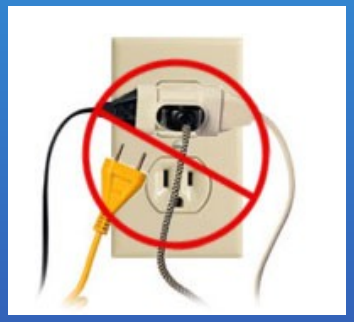
A 16 gauge cord less than 50’ will power 1250W

Over 50’ cord length good for only 250W!!

Extension Cords

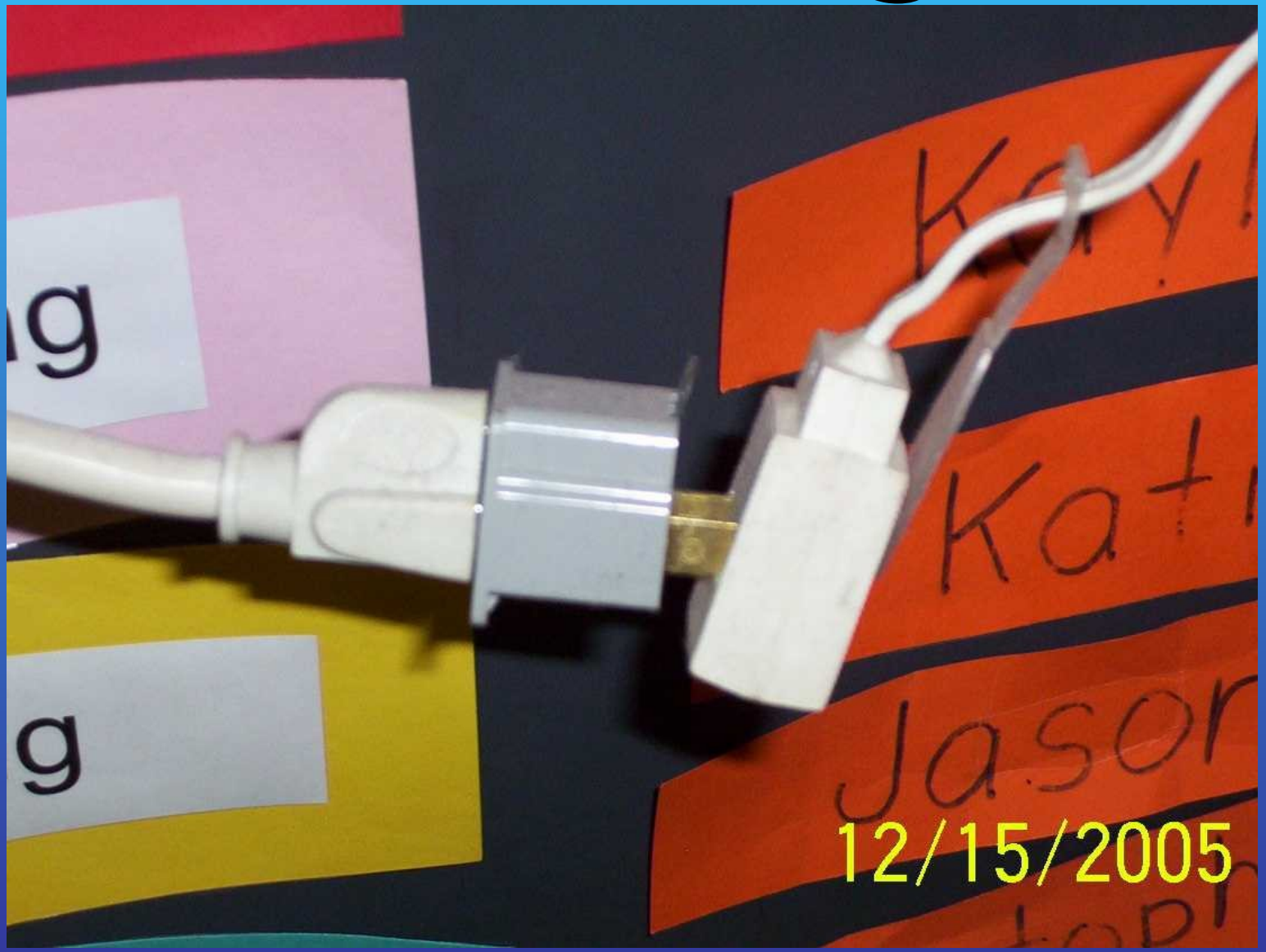
- **Get rid of damaged cords!**

- **Avoid “Daisy Chains”**



- **Pull out a plug via the plug end, not by yanking on the cord.**

Match Plugs



Check your outlet before you plug in a plug…

Extension Cords

- RB1235Extensioncords.wmv

GFCI

- **Ground fault circuit interrupters - GFCI**
  - **Electrical safety devices that trip electrical circuits when they detect leakage currents.**
- **A GFCI can be an electrical receptacle, circuit breaker, or portable device.**
  - **Useful for cord-connected appliances and equipment used outdoors or near water.**

GFCI

- **Power surges and electrical storms may damage GFCIs, preventing them from working properly.**

- **The GFCI test is simpl**

GFCI

- **Electrical current leakage may occur**
  - **when an electrical appliance is damaged or**
  - **when the electrical parts are wet and electrical current flows outside of the circuit conductors.**

- **If a person becomes part of the path for the leakage current, he or she will be shocked or electrocuted.**

HVAC

Guest Speakers

- **Carlo Facciolla – PW**
- **Steve Anderson – Johnson Controls**

MISCELLANEOUS

A S
S E
®

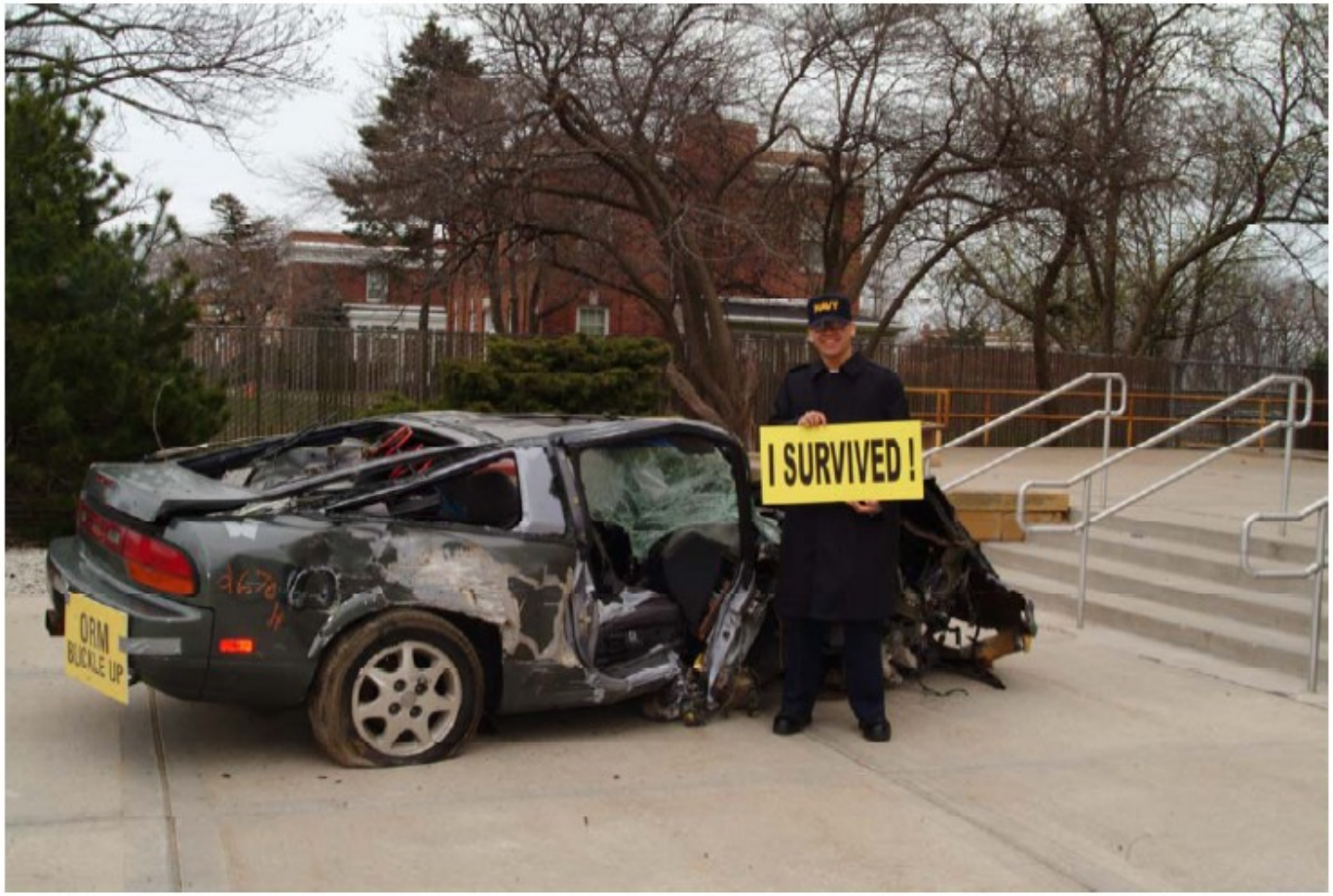
NAOSH2007
North American Occupational Safety & Health Week
BE SAFE AT WORK.
May 6 - 12, 2007
Occupational Safety & Health Professional Day - May 9th

9 MAY 2007

Occupational Safety and Health Professional Day

Buckle Up America Week
21 – 27 May 2007

I SURVIVED…



CLICK IT
OR
TICKET

Or-Ticket Campaign

21 May – 3 June

CLICK IT OR TICKET
DAY & NIGHT

Moline Gate

Moline Gate

10 May 2007

19 – 25 May 2007

SAFE BOATING WEEK

COE - Safe Boating

- Course Dates
  - 14 April (done)
  - 28 April (done)
  - 19 May
  - 16 June

- Course Times – 0800 – 1630
- Location – Clock Tower
- Contact – 794 – 5338
- Bring own lunch

SCHOOL'S OUT!

Fire Extinguisher Training?

- Provided by Fire Department
- 20 folks/session
- Outdoor training
- HANDS ON!

- Let me know by
  15 May 2007
  if interested.

HELP WANTED...

Safety Meeting Topics Needed!

S.A.F.E.

Sure Am Fortunate Experience

SAFE

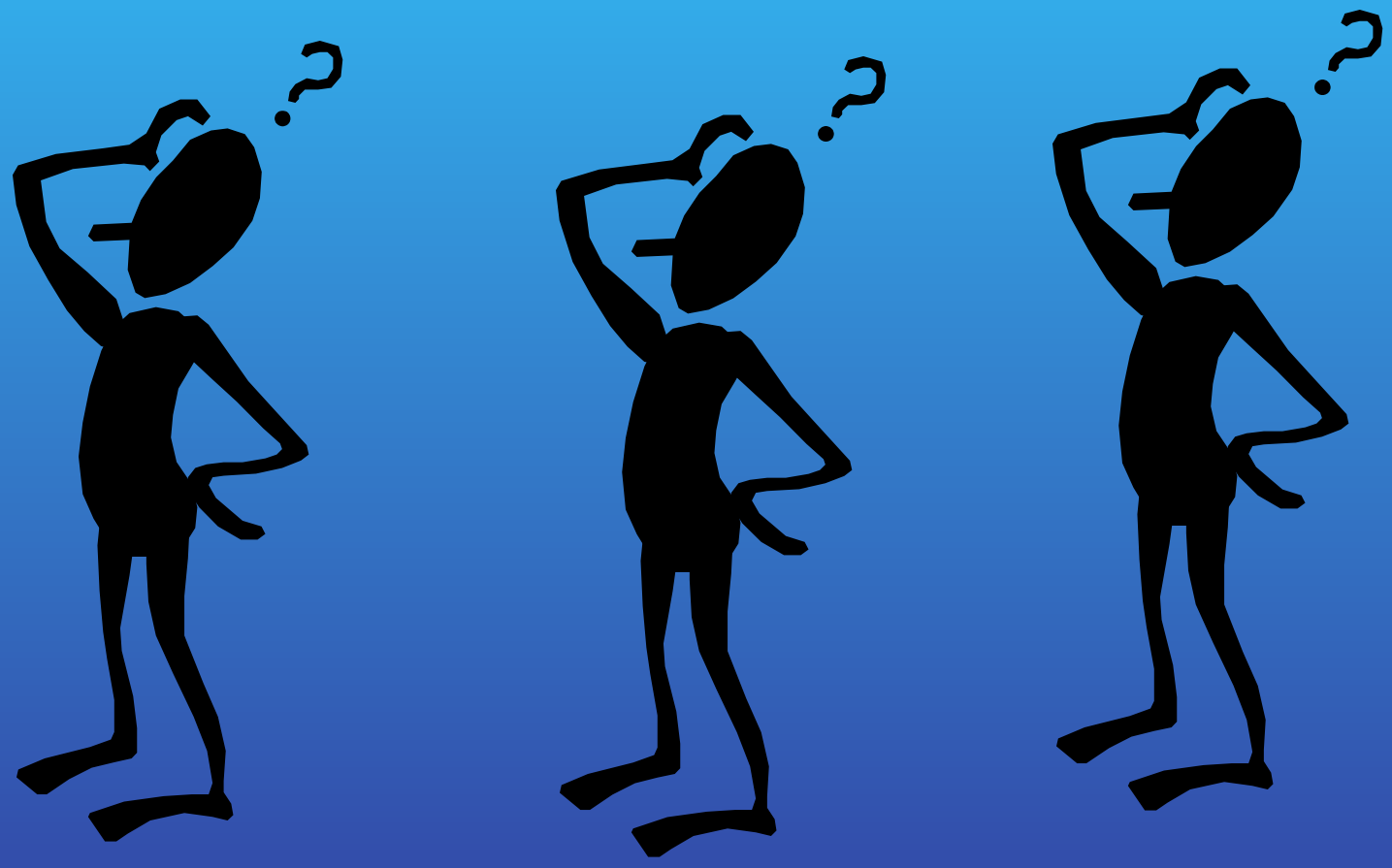
No submittals this month…

And the WINNER is...

LESSONS LEARNED

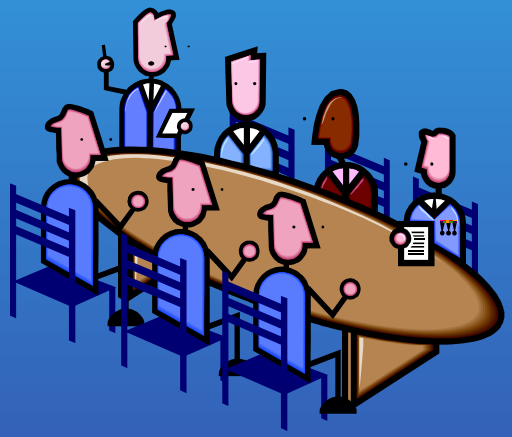
- **Think “SAFETY” when**
  - **Conducting spring cleaning chores**
  - **Gardening**
  - **Performing lawn work**
  - **Washing vehicles**
  - **Climbing ladders**
  - **Painting**
  - **Using power and hand tools**
  - **Playing and exercising**

QUESTIONS?



Next Meeting

- **12 June 2007, Tuesday**
- **1000**
- **Room 25, Bldg 90**



THANK YOU